PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220			
X16230	AGITON		well as, where applicable, item 5 below.			
International application No.	International filing date (day/month	national filing date (day/month/year) (Earliest) Priority Date (day/month/year)				
PCT/US2004/018921	07/06/2004 09/07/2003					
Applicant						
ELI LILLY AND COMPANY						
This International Search Report has been according to Article 18. A copy is being tra			ority and is transmitted to the applicant			
This International Search Report consists	of a total ofshe	ets.				
X It is also accompanied by	a copy of each prior art document co	ted in this r	report.			
	Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.					
The international this Authority (Rul		of a transla	ation of the international application furnished to			
b. X With regard to any nucleo	tide and/or amino acid sequence	disclosed i	in the international application, see Box No. I.			
2. Certain claims were four	nd unsearchable (See Box II).					
3. X Unity of invention is lack	king (see Box III).					
4. With regard to the title,						
the text is approved as su			•			
	hed by this Authority to read as follow	vs:				
TGF-BETA1 LIGANDS						
}			·			
5. With regard to the abstract,	•					
x the text is approved as su	bmitted by the applicant.					
			y as it appears in Box No. IV. The applicant th report, submit comments to this Authority.			
6. With regard to the drawings ,						
a. the figure of the drawings to be published with the abstract is Figure No.						
as suggested by t	_					
as selected by this	s Authority, because the applicant fa	iled to sug	gest a figure.			
as selected by this	s Authority, because this figure bette	r characte	rizes the invention.			
b. none of the figures is to be	published with the abstract.		·			

Form PCT/ISA/210 (first sheet) (January 2004)

International application No.

PCT/US2004/018921

Вох	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, the international search was carried out on the basis of:
	a.	type of material X a sequence listing table(s) related to the sequence listing
-	b.	format of material X in written format X in computer readable form
	c.	 time of filing/furnishing X contained in the international application as filed filed together with the international application in computer readable form X furnished subsequently to this Authority for the purpose of search
2.	х	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Addit	ional comments:

International application No. PCT/US2004/018921

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is
restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-32 partially
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-32 partially

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anti TGF-b1 binding composition "1021" characterized by one or more of the following CDRs:

HC CDR1= Seq ID No: 13,

HC CDR2= Seq ID No: 14,

HC CDR3= Seq ID No: 15,

LC CDR1= Seq ID No: 22,

LC CDR2= Seq ID No: 23,

LC CDR3= Seq ID No: 24,

LC v-region (Seq ID No: 2) comprises Seq ID No: 22,23,24 and

HC v-region (Seq ID No: 4) comprises Seq ID No: 13,14,15
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2. claims: 1-32 partially

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anti TGF-b1 binding composition "2471" characterized by one or more of the following CDRs:
HC CDR1= Seq ID No: 16,
HC CDR2= Seq ID No: 17,
HC CDR3= Seq ID No: 18,
LC CDR1= Seq ID No: 25,
LC CDR2= Seq ID No: 26,
LC CDR3= Seq ID No: 27
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3. claims: 1-32 partially

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anti TGF-b1 binding composition "3821" characterized by:
HC CDR1= Seq ID No: 19,
HC CDR2= Seq ID No: 20,
HC CDR3= Seq ID No: 21,
LC CDR1= Seq ID No: 28,
LC CDR2= Seq ID No: 29,
LC CDR3= Seq ID No: 30,
LC v-region (Seq ID No: 10) comprises Seq ID No: 28,29,30 and
HC v-region (Seq ID No: 12) comprises Seq ID No: 19,20,21
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International Application No PCT/US2004/018921

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07K16/22

According to International Patent Classification (IPC) or to both national classification and IPC

IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, EMBASE, BIOSIS, PAJ, LIFESCIENCES, SCISEARCH, CHEM ABS Data, Sequence Search

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X	WO 00/66631 A (CAMBRIDGE ANTIBODY TECH; TEMPEST PHILIP RONALD (GB); BRADDOCK PETA SA) 9 November 2000 (2000-11-09) page 1 - page 3 table 2 figures 1,4 examples 1,3,6	1-32	
	-/		
X Furt	ther documents are listed in the continuation of box C. X Patent family members are listed	in annex.	
"A" docume consider earlier filing of the citation of the cita	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another or or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed ent which may throw doubts on priority claim(s) or involve an inventive step when the de "Y" document of particular relevance; the cannot be considered to involve an inventive step when the de "Y" document is combined with one or ments, such combination being obvious in the art. **a" document member of the same patent	the application but every underlying the claimed invention to considered to comment is taken alone claimed invention eventive step when the one other such docu-us to a person skilled	
	2005 Date of mailing of the international search Date of mailing of the in	arch report	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Authorized officer Voigt-Ritzer, H		

International Application No PCT/US2004/018921

		PC1/US2004/018921		
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.				
Category *	Citation of document, with indication, where appropriate, of the relevant passages	nessvani io Ciami No.		
X	**SHAH M ET AL: "NEUTRALISATION OF TGF-BETA1 AND TGF-BETA2 OR EXOGENOUS ADDITION OF TGF-BETA3 TO CUTANEOUS RAT WOUNDS REDUCES SCARRING" JOURNAL OF CELL SCIENCE, CAMBRIDGE UNIVERSITY PRESS, LONDON, GB, vol. 108, no. PART 3, 1 March 1995 (1995-03-01), pages 985-1002, XP000609005 ISSN: 0021-9533 page 997, column 1, paragraph 2 table 1	1-13,30		
X	✓Monoclonal anti-TGF-b1 antibody. R&D Systems, Ordering Information, Catalog Number: MAB2401, 29.1.2003. XP002313281 abstract	1-32		
X	VLUCAS C ET AL: "THE AUTOCRINE PRODUCTION OF TRANSFORMING GROWTH FACTOR-BETA1 DURING LUMPHOCYTE ACTIVATION A STUDY WITH A MONOCLONAL ANTIBODY-BASED ELISA" JOURNAL OF IMMUNOLOGY, THE WILLIAMS AND WILKINS CO. BALTIMORE, US, vol. 145, 1 September 1990 (1990-09-01), pages 1415-1422, XP000917385 ISSN: 0022-1767 abstract page 1419, column 2, paragraph 2 - page 1420, column 1, paragraph 1 figure 3	1-14, 18-27, 30,31		
X	WO 97/13844 A (CAMBRIDGE ANTIBODY TECH; TEMPEST PHILIP RONALD (GB); THOMSON JULIA EL) 17 April 1997 (1997-04-17) page 12, line 12 - line 27 figures 1bii,1ci examples 1,3.4,9 page 62, line 25 - page 63, line 14 page 67, line 12 - page 68, line 5 page 100, line 4 - page 101, line 15	1-32		
X	FLANDERS K C ET AL: "ANTIBODIES TO PEPTIDE DETERMINANTS IN TRANSFORMING GROWTH FACTOR BETA AND THEIR APPLICATIONS" BIOCHEMISTRY, AMERICAN CHEMICAL SOCIETY. EASTON, PA, US, vol. 27, 1988, pages 739-746, XP002044723 ISSN: 0006-2960 page 744, column 2, paragraph 2 figure 7	1-13,30		

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International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No		
X	ELLINGSWORTH L R ET AL: "TRANSFORMING GROWTH FACTOR-BETAS ARE EQUIPOTENT GROWTH INHIBITORS OF INTERLEUKIN-1-INDUCED THYMOCYTE PROLIFERATION" CELLULAR IMMUNOLOGY, vol. 114, no. 1, 1988, pages 41-54, XP009042444 ISSN: 0008-8749 page 43, paragraph 3 figures 6,7,9 abstract	1-13,30		
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